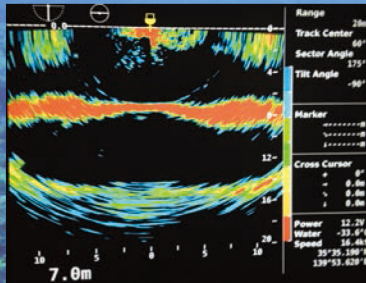
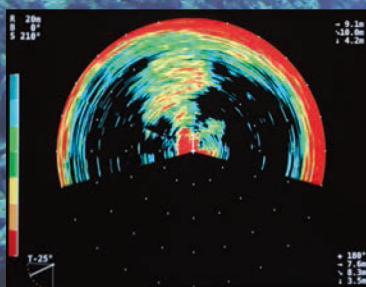




DSL-1000 Series



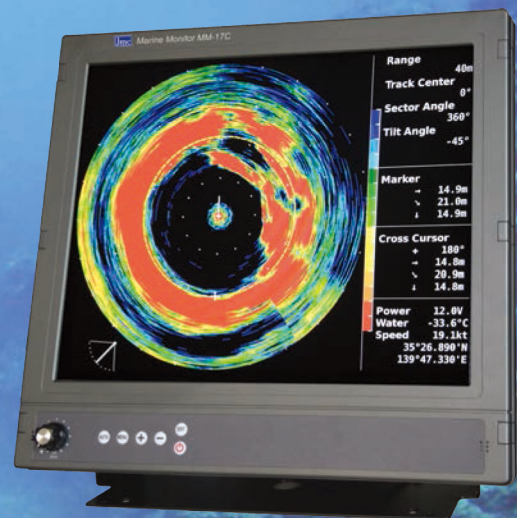
Bottom-Scan (Side-Scan) Mode



Sector-Scan Mode



Hull Unit



Full Circle Sonar Mode
on Optional MM-17C display



Keyboard Unit

Featuring:

180 kHz (DSL-1000-180), 140 kHz (**DSL-1000-140**) or 80 kHz (**DSL-1000-80**) searchlight type sonar system

Digital receiver design based on leading-edge DSP technology, offering superbly defined image resolution, wide-dynamic range sonar echogram previously unavailable with traditional analog circuitry designs.

State-of-the-art signal processing techniques include selectable gain-controllable range offsets, TVG control curves, receiver passbands, echo dynamic ranges, and overall gain attenuation setting (for prevention of receiver blocking by short/shallow range signals).

Selectable transmit power levels with automatic selection of pulse widths optimized for the range in use, with each pulse expandable in 2 steps for long range search applications where additional effective power to targets is needed

Operating modes include sonar mode (full circle/sector scanning with off-centering), side scanning (bottom scanning) and echo sounder modes, each mode shown across full screen area or split screens with simultaneous presentation of system parameter settings or time-wise compressed sounder mode echogram.

Eight search/depth ranges are user-definable in 10-unit steps from 10 to 2000 meters, fathoms, braccia, or in 20-unit steps for footage-calibrated range scales.

XGA video output available for uncompromised echogram resolution across an optional devoted 17-inch LCD marine monitor or a commercially available PC display accepting XGA format signal input.

Automatic soundome retraction initiated by the ship exceeding a preset speed limit with an external GPS speed data source connected

Built-in transducer stabilizer enabling the energy beam tilt angle to remain unaffected independent of the ship's rolling or pitching under rough sea conditions

Single-touch keypress for storage and recall of 3 sets of user-defined settings for different types of fishing, different underwater conditions or for use by different operators

Built-in target lock function steering the energy beam to stay locked onto a moving target of interest

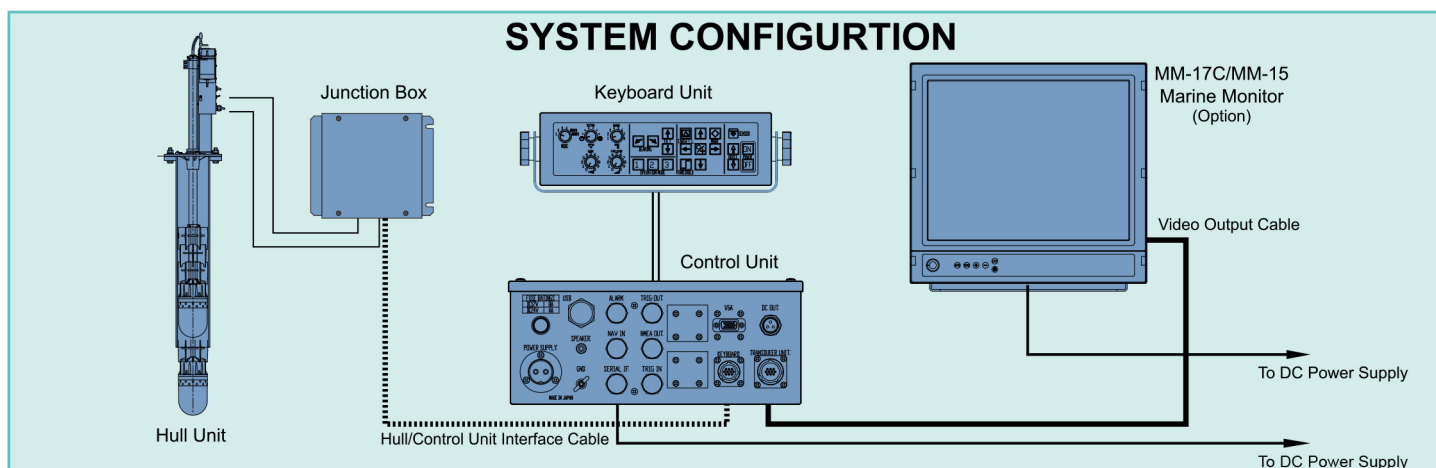
Audio output of sonar pings for remotely monitoring target detection via a commercially available speaker at a convenient location away from the sonar display, eliminating the need to constantly keep a watch on the sonar screen

Supports a ubiquitous USB memory drive for storage of hard-earned operational settings you cannot afford to lose or software update when available from your dealer.

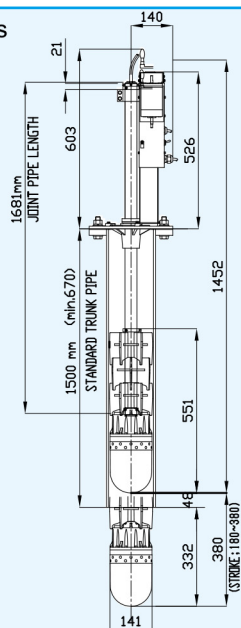
SPECIFICATIONS

Frequency:	80 kHz (DSL-1000-80), 140 kHz (DSL-1000-140) or 180 kHz (DSL-1000-180)
Operating Modes:	Sonar, Bottom (Side) Scanning, Echo Sounder
Search/Depth Ranges:	8 user-definable ranges to 2000 m/fm/br in 10-unit steps
Transmit Power:	Approx. 1.5 kW (max.), adjustable in 4 steps
Beam Width (-6db):	19° (H) X 15° (V)/80 kHz, 12° (H) X 12° (V)/140 kHz, 10° (H) X 10° (V)/180 kHz
Gain Control Offset:	10, 20, 30, 40, 50 dB
TVG Curves:	10Log R, 20Log R, 30Log R, 40Log R
Receiver Passbands:	Selectable in 5 steps
Recommended Trunk:	146 mm (6") inside diameter (user/shipyard-supplied)
Hoist Pipe Length:	1681 mm (standard), 1981 or 3000 mm (option)
Soundome Diameter/Travel:	142 mm/200 to 400 mm
Hoisting Speed:	Approx. 12 seconds for 400 mm travel at 24 VDC
Scanning Speed (360°):	4.3 sec./20m, 8 sec./100m, 12.8 sec./200m
Scan Sector Widths:	5°~360° in 8 steps sector for 5°/10°/15°/20° step scan
Beam Tilt Angle:	+5° to -90° with max. stabilizer control range of 25°
Interface Ports:	NMEA-0183, USB (FAT32), Audio (20W max. into 4 Ω)
Power Supply:	10.5 to 30V DC, floating ground
Current Drain (Standby):	Hull Unit: 4.1A/1.6A (12/24V), Control Unit: 6.2A/2.6A (12/24V)
Weight (Control /Keyboard/Hull) :	Approx. 3.5 kg/1.1 kg/38 kg (hoist, soundome, junction box included)

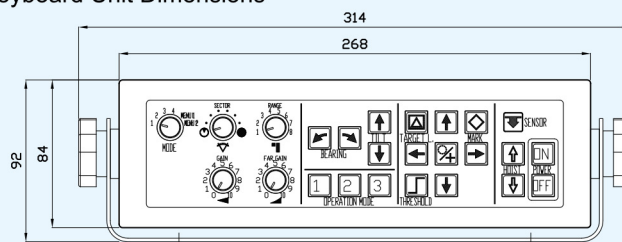
NOTE: Specifications are subject to change without notice or obligation.



Hull Unit Dimensions



Keyboard Unit Dimensions



Control Unit dimensions

